



Dart Aerospace Ltd.
1270 Aberdeen St
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7489
Reprint

SWA3-2
Job Sheet 176810



Part No: SWA3-2

Job Qty: 1 ea

Part Name: Electric Swivel 3,000 lb Safe Work Load (1,360 Kg)



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 5/1/18

Job Tracking No:

Due Date: 5/18/18

Created By: Marie Lajeunesse

Type: SOLD

Description:

Note: DWG SWA3 Rev 3

Ship Via:

6137

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	1 Ea		5/18/18	0.00	0.00	Start Up Small Fab-2		SB
110	Small Fab	1 pcs		5/18/18	0.00	2.00	Small Fab-6		ML AP
120	QC	1 pcs		5/18/18	0.00	0.00	QC5		DAS SB
125	DC	1 pcs		5/18/18	0.00	0.00	DC		21 SB
130	Packaging	1 pcs		5/18/18	0.00	0.00	Packaging3		9-59 SB
140	QC21-FG	1 Ea		5/18/18	0.00	0.00	QC21		DAS SB

Part Op 110 - Assemble as per DWG. Sheet 1 ***All assembly to be done in accordance with SWA3 swivel manual*** Engrave Descriptions: T/N And / or S/N number as required Using Marktronic engraver as per DWG. Laser engrave dart logo as per DWG.

125 - Photocopy blue file OM & OOPM-SWA3A Rev3

130 - Bag and tag

Grease AEROSHELL NO.7 (M138724)

SILICONE GE MK38942

Loctite 242 (M138766)

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
188-FPSS-832-3/8	Set Screw	1 Ea (1 ea)	90-Start up Operation	5027242
92210A303	Flat Socket Cap Screw	4 pcs (4 ea)	110-Small Fab	5083914
EL-PLUG-F	3-Prong Female Spade Plug	1 Ea (1 ea)	110-Small Fab	5031223
EL-PLUG-M	3-Prong Male Spade Plug	1 Ea (1 ea)	110-Small Fab	5082957
EL314-SJTOW	Long Line Electrical Wire, 14/3 Gauge	6 ft (6 ea)	110-Small Fab	5047767
SWA3-100	Upper End - Swa3 Swivel	1 Ea (1 ea)	110-Small Fab	5108526
SWA3-200	Lower End	1 Ea (1 ea)	110-Small Fab	5029398
SWA3-300	Wire Clamp	2 Ea (2 ea)	110-Small Fab	5076392
SWA3-400	Button Head Screw	2 Ea (2 ea)	110-Small Fab	5108099
SWA3-500	Connector Bushing-230	1 Ea (1 ea)	110-Small Fab	5117115
SWA3-600	O-Ring	1 Ea (1 ea)	110-Small Fab	5119053
SWA3-700	9529K15 Bearing Balls - 1/4"	32 Ea (32 ea)	110-Small Fab	5097699
SWA6A-1900	1/4" Female Spade Connector	4 Ea (4 ea)	110-Small Fab	5047603
SWA6A-900A	Rotary Connector - 2 wire	1 pcs (1 ea)	110-Small Fab	5116179

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
90-Start up Operation	188-FPSS-832-3/8	1	53	0
110-Small Fab	92210A303	4	64	0
	EL-PLUG-F	1	30	0

EL-PLUG-M	1	80	0
EL314-SJTOW	6	392	0
SWA3-100	1	10	0
SWA3-200	1	0	0
SWA3-300	2	5	0
SWA3-400	2	26	0
SWA3-500	1	27	0
SWA3-600	1	24	0
SWA3-700	32	560	0
SWA6A-1900	4	380	0
SWA6A-900A	1	13	0

Part Specifications

Specifications could not be found.

Plex 10/23/18 7:03 AM Dart.lajeunesse.marie

DART
AEROSPACE

1470 BURNING BUSH
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CANADA
TEL: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Container No: S120480



Part: SWA3--2

Job No: 176810

Serial No/Batch: S120480

Revision: 3

Inspector:

Exp Date:

Instructions:

Date: 10/23/18

Work Order 176 810Customer 7489Number of Wires 2Date 26 / 10 / 2018Serial Number 5120480

Number of Cycles	Load (Lbs.)	Action	Pass/Fail
1	3,000	Check for Conductivity against all wires.	- Pass
1	3,000	Check all wires for grounding against swivel body.	- Pass
1	1,500	Check for Conductivity against all wires.	- Pass
1	1,500	Check all wires for grounding against swivel body.	- Pass
1	750	Check for Conductivity against all wires.	- Pass
1	750	Check all wires for grounding against swivel body.	- Pass
1	0	Check for Conductivity against all wires.	- Pass
1	0	Check all wires for grounding against swivel body.	- Pass

Test Conducted By: Michel Lalonde
TechnicianSignature: Sylvie Bucher
QC 5 Small FAB / QA

Submit

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: <u>176810</u> Part No. <u>SWA### Swivels</u> NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube ☐</td> <td>Cross tube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																																									
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Date : <u>2018/10/26</u>		Step #: _____		QTY Effective : _____		MRB (QSI042) Approval Feb 01, 2018																																																																									
Description Work Order Deviation - Use a combination of heatshrink tubing and RTV Silicone to create a watertight seal around all electrical connections. - Use a D2728-1 Placard in place of the laser engraved Dart logo				Disposition These deviations are acceptable to carry out on the following swivels: - SWA3 - SWA6A - SWA10A - SWA15A - SWA25A - PSWA25A There is no impact on fit, form or function.				Completed By <u>ALAIN PATRY</u> Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																																							
Root Cause <table style="width:100%;"> <tr> <td>Environment ☐</td> <td>No Re-verification ☐</td> <td>Pressure/Forced ☐</td> <td>Temperature/Cure ☐</td> <td>Power Loss/Surge ☐</td> <td>Positioned Wrong ☐</td> </tr> <tr> <td>Design ☒</td> <td>Operator ☐</td> <td>Bending ☐</td> <td>Set-up ☐</td> <td>Folio/Program ☐</td> <td>Outside Dimensions ☐</td> </tr> <tr> <td>Doc/Data ☐</td> <td>Offset/Setup ☐</td> <td>Centre Not Concentric ☐</td> <td>BOM/Route ☐</td> <td>Grain ☐</td> <td>Over/Under tolerance ☐</td> </tr> <tr> <td>Equip/Tooling ☐</td> <td>Supplier ☐</td> <td>Cracks ☐</td> <td>Broken/Damage/Defect ☐</td> <td>Weld ☐</td> <td>Part Incorrect ☐</td> </tr> <tr> <td>Handling/Pre ☐</td> <td>Training ☐</td> <td>Crimp/Kink/Ripple/Wave ☐</td> <td>Inspection Incomplete/Unqualified ☐</td> <td>Wrong Stock Pulled ☐</td> <td>Part Lost/Missing ☐</td> </tr> <tr> <td>Material ☐</td> <td>Use for Testing ☐</td> <td>Cuffs ☐</td> <td>Contamination ☐</td> <td>Out of Sequence ☐</td> <td>Part Moved ☐</td> </tr> <tr> <td>Internal Transport ☐</td> <td>Poor Information ☐</td> <td>Crushing ☐</td> <td>Countersink ☐</td> <td>Off-set ☐</td> <td>Drawing ☐</td> </tr> <tr> <td>Tribal Knowledge ☐</td> <td>Rushing ☐</td> <td>Heat Treat ☐</td> <td>Cut Too Short ☐</td> <td>Mislabeled ☐</td> <td>Finish ☐</td> </tr> <tr> <td>LOA ☐</td> <td>☒ Product Improvement</td> <td>Wave/Twist in Tube ☐</td> <td>Instructions Incomplete/Unclear ☐</td> <td>Fit/Function ☐</td> <td>Misread ☐</td> </tr> <tr> <td>Substation ☐</td> <td>☒ Process Improvement</td> <td>Marks/Chatter ☐</td> <td>Drill Holes ☐</td> <td>Misaligned/off center ☐</td> <td>Turning Sequence ☐</td> </tr> <tr> <td>Past Expiry Date ☐</td> <td>Manufacturing Process ☐</td> <td colspan="4"></td> </tr> <tr> <td>Misidentified ☐</td> <td>Past Due ☐</td> <td colspan="4">OTHER : _____</td> </tr> </table>				Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☒	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	☒ Product Improvement	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	☒ Process Improvement	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐					Misidentified ☐	Past Due ☐	OTHER : _____							
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